

1 we would like to see. So, I think there is clearly
2 a mandate to continue to improve this product.
3 These devices are placed in healthy individuals.
4 So, I think it is very important to continue the
5 effort to improve the product which is clearly
6 fraught with problems.

7 So, I think I really do echo the
8 statements that have been made both regarding
9 informed consent and the data that is available.

10 DR. WHALEN: Dr. Witten, for FDA's
11 purposes has this discussion been adequate?

12 DR. WITTEN: Yes, thank you.

13 DR. WHALEN: We, therefore, will stand
14 adjourned for lunch and at 1:30 sharply we will
15 reconvene.

16 [Whereupon, at 12:40 p.m., the panel was
17 adjourned, to reconvene at 1:30 p.m.]

1 A F T E R N O O N P R O C E E D I N G S

2 DR. WHALEN: I would like to welcome
3 everyone back. I would remind the public observers
4 at this meeting that while this portion of the
5 meeting is open to their public observation, public
6 attendees may not participate except at the
7 specific request of the panel.

8 We are now ready to continue our panel
9 meeting with Inamed Corporations presentation.

10 Inamed Corporation

11 DR. EHMTSEN: Good afternoon, Dr. Witten,
12 Dr. Whalen, members of the panel, FDA
13 representatives and all those in the audience. I
14 am Ron Ehmsen, vice president of clinical and
15 regulatory affairs for Inamed. I should point out
16 that what had previously been McGhan Medical
17 Corporation is now operating as Inamed Aesthetics,
18 which is a business unit of Inamed Corporation.

19 My colleagues and I are here today to
20 present an update on several conditions of approval
21 that were associated with PMA number P990074 which
22 covers McGhan's saline-filled breast implants.
23 That PMA was approved by FDA on May 10, 2000 for
24 breast augmentation in women over 18 years of age
25 and for breast reconstruction.

1 There were five conditions of approval.
2 First was a post-approval study; second, a focus
3 group study aimed at clarifying or trying to
4 understand whether the patients themselves had any
5 questions about the brochures that were provided to
6 them to help them make a choice. Third is a
7 retrieval study. Fourth is fatigue testing and
8 fifth is shelf-life testing.

9 We will break up the presentation into
10 several parts. Dr. Audrey Weiss, our senior
11 manager of clinical research, will present the
12 results of the post-approval study and then we will
13 move on from there with Kim Croyle, our senior
14 regulatory affairs specialist, and Tom Powell, our
15 director of technologies. Audrey?

16 DR. WEISS: Thanks, Ron. Inamed's first
17 condition of approval was to conduct a
18 post-approval study to identify long-term outcomes
19 associated with McGhan's saline-filled breast
20 implants.

21 First I would like to review the data that
22 formed the basis of the original PMA that was
23 submitted. The original PMA included data from
24 three years of follow-up, three-year post-implant
25 information from two five-year clinical studies.

1 Additionally, women enrolled in these studies also
2 had begun to complete some of their three-year
3 follow-up visits. So, limited four-year data was
4 also available at that time.

5 The two clinical trials were the 1995
6 augmentation study which, for short, I will refer
7 to as the A95 study. In that study, 901 patients
8 were enrolled between 1995 and 1996 for primary
9 augmentation. The second study was the 1995
10 reconstruction study, which I will refer to as the
11 R95 study for short. That study had a very similar
12 protocol to the A95 study and enrolled 237 patients
13 for primary breast reconstruction. Almost all of
14 the patients enrolled in the R95 study had had
15 mastectomy following breast cancer, and there was a
16 handful of patients in that study who had had
17 prophylactic mastectomy. All of the patients in
18 both the A95 and R95 studies had not had previous
19 breast implants prior to enrollment.

20 The post-approval data collection is being
21 conducted in two phases, and the objective of the
22 study is to obtain long-term safety information
23 through ten years post-implant on the same 1100
24 women who were enrolled in the A95 and R95 studies.
25 Again, at the time of the original PMA complete

1 three-year follow-up information was available.

2 All women had completed three-year follow-up.

3 So, the post-approval data collection we
4 actually are conducting in two separate phases.
5 The first phase has been completed, and involved
6 continuing to follow those 1100 women enrolled in
7 the A95 and R95 studies under the same protocols as
8 those studies had been conducted under through
9 three years post-implant. Specifically, the
10 protocol involved women coming in to see their
11 physician for a follow-up visit in the office. The
12 four-year and five-year follow-up information that
13 forms the phase one of the post-approval data
14 collection was based on this method of data
15 collection. Complete five-year information is now
16 available. All patients have completed the
17 five-year follow-up visit and the five-year data is
18 what I will present today.

19 The second phase of post-approval data
20 collection is currently in process. This phase
21 involves continuing to follow those same 1100 women
22 who were enrolled in the A95 and R95 studies using
23 a mail survey protocol that will follow them from
24 six to ten years post-implant. On the anniversary
25 of their original implant surgery, patients will be

1 sent a mail survey to complete regarding the status
2 of critical safety outcome variables, including
3 reoperation and implant leakage/deflation. Again,
4 that phase two is in process and we are currently
5 mailing surveys to patients for the six- to
6 ten-year follow-up information.

7 The remainder of the presentation will
8 focus on the five-year follow-up information from
9 phase one. First, I would like to present the
10 follow-up compliance information for patients
11 enrolled in the A95 and R95 studies.

12 First, what I have done here is actually
13 included the follow-up compliance rate at each of
14 the required follow-up intervals, which was
15 annually through the five years in the A95 and R95
16 clinical studies. The data that was presented for
17 the original PMA was three-year data which was
18 based on 83 percent patient compliance for the
19 augmentation cohort and 88 percent follow-up
20 compliance for the reconstruction group.

21 For the post-approval phase the follow-up
22 compliance rate has remained at 80 percent or
23 higher. At five years the follow-up compliance
24 rate was 81 percent for augmentation patients and
25 80 for the reconstruction patients.

1 Next, I would like to present the
2 information obtained for specific local
3 complications that were assessed in the A95 and R95
4 studies. The specific complications that I will
5 present are reoperations, implant replacement/
6 removal, leakage/deflation, capsular contracture,
7 infection, and a variety of other complications
8 that were included in the protocols and, for
9 completeness, we have included them here today.
10 These include complications such as
11 surgical-related outcomes including hematoma,
12 seroma, and skin and nipple related complications.

13 I should point out with this complications
14 that these are not additive. The same patients who
15 are included in the reoperation rate, for example,
16 may also be included in implant replacement/removal
17 since implant replacement/ removal is a subset of
18 reoperations. Similarly, a patient may undergo a
19 leakage/deflation and also be included in the risk
20 for implant replacement/removal. So, they are
21 independent risks and are not additive.

22 Again, the method used for data collection
23 was a physical examination by a physician at an
24 office visit, according to the original protocol
25 for the A95 and R95 studies. The analysis method

1 utilized was a cumulative risk based on the
2 Kaplan-Meier product limit method with 95 percent
3 confidence intervals computed. The cumulative risk
4 that you will see in the following graphs is
5 represented as a failure rate curve which, you will
6 see, increases or stays level over time. It will
7 never go down because, as we add additional events
8 in over time the risk can only increase.

9 What you will see in the cumulative risk
10 curves is the summation of all events that occurred
11 up to the particular time point being reported, and
12 each of the time points that were assessed in the
13 study is presented.

14 What I will do now is go through each of
15 the specific complications, reoperations, implant
16 replacement/ removal, leakage/deflation, capsular
17 contracture and infection and report on the risk
18 information obtained through five years
19 post-implant.

20 First, this graph represents the
21 cumulative risk of reoperations for the
22 augmentation and reconstruction patients. Again,
23 the risk is being presented for each of the time
24 points that were assessed in the study, and you can
25 look at this as a cumulative risk through the time

1 point presented in the graph. The white line
2 represents the cumulative risk for the augmentation
3 patients and the yellow line represents the
4 cumulative risk for the reconstruction patients.

5 For example, with reoperations the
6 cumulative five-year risk for augmentation patients
7 is approximately 25 percent and the cumulative risk
8 of experiencing at least one reoperation through
9 the five-year time point is approximately 42, 43
10 percent.

11 Next, what I would like to do is breakdown
12 what types of reoperation procedures patients
13 underwent. The reoperations reported here include
14 any type of operative procedure to the breast or
15 chest area, for example, implant
16 replacement/removal and biopsy/lump removal, for
17 example, is included here.

18 The next graph will break down for all
19 those patients who underwent reoperation what those
20 reoperations were. This pie chart represents the
21 breakdown of all of the reoperations for
22 augmentation patients. What you can see here from
23 the red wedge is that the largest proportion, the
24 largest number of reoperations were implant
25 replacement/ removal. That could be removal with

1 or without replacement of the device.

2 The second most common type of reoperation
3 performed for the augmentation patients was a
4 capsule procedure, for example, capsulotomy or
5 capsulectomy.

6 For reconstruction patients, the breakdown
7 of the types of reoperation procedures is as such.
8 Again, implant replacement/removal is the most
9 common type of reoperation performed, followed by,
10 in the purple wedge, scar revision or wound repair,
11 and then capsule procedures.

12 What I will do next is drill down into
13 this chart a bit and look specifically at the most
14 common type of reoperation, which is implant
15 replacement/removal, and look specifically at risk
16 through five years of that particular reoperation
17 and then look at reasons why patients undergo
18 implant replacement/removal.

19 First, this graph represents the
20 cumulative risk through each of the time points
21 indicated, ending with the five-year time point, of
22 implant replacement/removal for augmentation and
23 reconstruction patients. Through five years, the
24 risk of experiencing an implant replacement/
25 removal was approximately 11 percent for

1 augmentation patients and approximately 28 percent
2 for reconstruction patients.

3 The next two graphs will look at these
4 patients who have undergone implant
5 replacement/removal and look specifically at why
6 patients underwent the device replacement/removal.

7 First for augmentation patients, the most
8 common reason why patients undergo
9 replacement/removal is seen with the red wedge,
10 which is the patient's own choice to change the
11 size or the style of the device. The second most
12 common reason for device replacement/removal is
13 leakage/deflation of the device.

14 For reconstruction patients the
15 predominant reason for undergoing implant
16 replacement/removal is capsular contracture,
17 followed by the patient's choice to change the size
18 or style of the device, and then leakage/deflation.

19 The next slides that I will present break
20 out these particular complications that have been
21 represented in these graphs and look specifically
22 at the risk to patients of experiencing various
23 complications, including leakage/ deflation,
24 capsular contracture and infection.

25 This graph represents the cumulative risk

1 through five years for augmentation patients and
2 reconstruction patients who experienced a
3 leakage/deflation. As you can see, the risk is
4 virtually identical for both augmentation and
5 reconstruction patients, and is approximately six
6 percent through the five-year time point.

7 For capsular contracture, the five-year
8 cumulative risk for augmentation patients is
9 approximately ten percent and approximately 35
10 percent risk through five years for reconstruction
11 patients.

12 Next is the risk of infection following
13 implant surgery. For augmentation patients through
14 five years the risk of experiencing an infection is
15 approximately one percent and for reconstruction
16 patients approximately five to six percent.

17 The remaining graphs that I will show for
18 the local complications that were assessed in the
19 A95 and R95 studies are actually summaries of the
20 cumulative Kaplan-Meier risk curves that you see
21 here. We had another approximately 20 or so
22 complications that were assessed in the A95 and R95
23 studies, and for completeness I have included them
24 here. Each one of them, you can imagine, has a
25 Kaplan-Meier risk curve, just like those

1 complications presented here. However, for
2 brevity, what I have done is include them on a bar
3 chart that summarizes only the five-year risk rate,
4 which would be the highest possible risk through
5 five years.

6 For example, this graph includes six
7 implant-specific complications, and what you see
8 with the white bar is the risk through five years
9 for augmentation patients, and the yellow bar, the
10 risk through five years for reconstruction
11 patients.

12 For example, the risk of experiencing
13 asymmetry for an augmentation patient through five
14 years is approximately 12 percent, and for
15 reconstruction patients approximately 40 percent.

16 In discussions with clinicians, they have
17 indicated that this is to be expected given that
18 with reconstruction patients they are trying to
19 match a reconstructed breast that has had
20 mastectomy with a normal non-reconstructed breast
21 on the other side.

22 Also reported here are cumulative
23 five-year risks for capsule classification, implant
24 extrusion, implant malposition, implant palpability
25 and wrinkling.

1 The next graph reports the five-year
2 cumulative risk for augmentation and reconstruction
3 patients for various surgical-related complications
4 that were assessed in these studies. As you can
5 see from this graph, all of these surgical-related
6 risks occurred at well less than ten percent,
7 actually under seven percent for the five-year
8 cumulative risk. Presented are delayed wound
9 healing, hematoma, scarring,
10 irritation/inflammation, lymphadenopathy,
11 pneumothorax and seroma.

12 The next graph presents the cumulative
13 five-year risks for various skin and nipple-related
14 complications that were assessed in the A95 and R95
15 studies. Presented are the risks for loss of
16 nipple sensation, nipple paresthesia, skin
17 paresthesia, skin rash, tissue/skin necrosis and
18 breast pain.

19 The next graph that I will present looks
20 very similar to this, however it differs in two
21 very important ways. Following implant
22 replacement, we continued to follow patients and
23 look at any outcomes following the replacement, and
24 this graph looks at the cumulative risk of some
25 specific complications following device

1 replacement.

2 The two critical differences in this graph
3 that I would like to point out from the ones that
4 you have seen previously are, first, that the risk
5 presented here is at three years following
6 replacement. Patients were able to be revised any
7 time through the five years. So, limited follow-up
8 information is available for patients, for example,
9 who were explanted at year four. We would only
10 have one year of information following the device
11 replacement. So, we were only able to calculate a
12 valid risk with the information available for three
13 years following the replacement in the study.

14 The second difference in this graph is
15 that, unlike the previous risk information
16 presented which was on a by-patient basis, this
17 analysis is based on a by-device or by-implant
18 basis. This was selected because patients could
19 have one side revised rather than both sides. So,
20 it made the most sense to look specifically at an
21 analysis by the replaced device.

22 The complications presented here are of
23 second replacement removal following replacement
24 removal. The risk here, you can see, is
25 approximately 18 percent three years following

1 replacement for augmentation patients and
2 approximately 28 percent for reconstruction
3 patients; risk of leakage/deflation following
4 device replacement; risk of capsular contracture
5 and risk of infection following a replacement
6 surgery.

7 Next, I would like to present information
8 obtained on reports of breast cancer post-implant
9 and connective tissue or autoimmune disease
10 reports. First for breast cancer, of the 901
11 enrolled augmentation patients, there was one
12 post-implant report of breast cancer which occurred
13 27 months after implant surgery. For
14 reconstruction patients, there were 24 post-implant
15 reports of breast cancer through five years
16 post-implant. All of these 24 reports occurred in
17 patients who previously had had breast cancer,
18 which was the reason why they enrolled in the study
19 initially. The cancer may have recurred in the
20 same breast that originally had the breast cancer
21 or in the contralateral side.

22 Next, connective tissue and autoimmune
23 disease information, the method of data collection
24 for connective tissue and autoimmune diseases was
25 that a patient would self-report to her physician

1 that she had a particular connective tissue or
2 autoimmune disease. Based on the self-report by
3 the patient, the physician would attempt to contact
4 a diagnosing physician, attempt to obtain a
5 diagnosis by the rheumatologist for example. If
6 the physician was able to obtain a diagnosing
7 physician's report we term that here a confirmed
8 report. In other words, there is a physician
9 diagnosing the patient with the particular
10 connective tissue or autoimmune disease. If the
11 patient self-report was not able to be confirmed by
12 a diagnosing physician's report, we list that here
13 as an unconfirmed report. It is still a patient's
14 self-report of the disease but the doctor has been
15 unable to obtain a diagnosing physician's report.
16 That may be due either to the patient never
17 obtained the diagnosis or is not able to be
18 contacted, for example.

19 Additionally, and I do not report that
20 here, there have been some cases of self-reports by
21 patients that have been found to be false reports,
22 where the patients initially reported a particular
23 connective tissue or autoimmune disease and
24 subsequently indicated that they actually either
25 had a different type of diagnosis or did not have a

1 connective tissue or autoimmune disease at all.

2 For the augmentation group, there were 7
3 confirmed reports of connective tissue or
4 autoimmune disease and 13 unconfirmed reports. Of
5 the 7 confirmed reports, 3 were Grave's disease, 2
6 were hyperthyroiditis and 2 were chronic fatigue
7 syndrome or fibromyalgia.

8 Among the reconstruction patients there
9 was one confirmed report of a connective tissue or
10 autoimmune disease and four unconfirmed reports.
11 The one confirmed report was a diagnosis of Grave's
12 disease.

13 Last, I would like to present information
14 obtained concerning patient satisfaction with their
15 breast implants. At each follow-up interval with
16 their physician, patients were asked whether they
17 were satisfied or dissatisfied with their breast
18 implants and breast implant surgery. The following
19 graph presents the results from each annual
20 follow-up visit so it includes data from the
21 original PMA through three years, as well as the
22 post-approval data at four and five years. It
23 indicates the percentage of patients who indicated
24 that they were satisfied with their breast
25 implants.

1 For the augmentation cohort, you can see
2 that the percentage has been at 95 or 96 percent of
3 patients at each annual follow-up visit, including
4 five years post-implant, with 95 percent of
5 augmentation patients indicating they were
6 satisfied.

7 For reconstruction patients the percent of
8 patients indicating they were satisfied has
9 remained at around approximately 90 percent, with
10 88 percent indicating they were satisfied at three
11 years post-implant and 89 percent indicating they
12 were satisfied at five years post-implant.

13 To conclude the information pertaining to
14 the post-approval study, Inamed is conducting its
15 post-approval study in two phases. The first phase
16 has been completed and involved continuing to
17 follow patients enrolled in the A95 and R95 studies
18 out through five years post-implant, according to
19 those original study protocols which involved
20 physician examination of the patient at an office
21 visit.

22 The second phase is ongoing, and Inamed is
23 in the process of obtaining mail surveys from
24 patients who will self-report on the status of
25 their breast implants out through ten years

1 post-implant.

2 Next, I would like to turn the
3 presentation over to Kim Croyle, senior regulatory
4 affairs specialist with Inamed, who will talk about
5 the second condition of approval, which is the
6 focus group study.

7 MS. CROYLE: Thank you, Audrey. Good
8 afternoon, panel.

9 In order to meet the second PMA condition
10 of approval, Inamed contracted with Kaplan West
11 Qualitative Research Organization to conduct a
12 focus group study in order to obtain women's
13 opinions and assessment of our patient brochure.

14 The research objectives of the focus group
15 study were to obtain women's feedback regarding the
16 quality of our patient brochure, and to propose
17 qualitative changes to improve the patient
18 brochure, based on the study findings.

19 There were six focus groups consisting of
20 8-13 women each, three groups for augmentation,
21 which consisted of two groups of women who had had,
22 or who were considering, or had considered breast
23 augmentation; one group of women who had previously
24 had breast augmentation. Additionally, we had
25 three reconstruction groups, two groups of women

1 who had considered or were considering breast
2 reconstruction, and a third group of women who had
3 previously had breast reconstruction.

4 The key findings in discussion with the
5 patients who were participating and the women who
6 were considering these surgeries were that the
7 brochure was informative, and also was helpful to
8 them and answered most of the patients' questions.
9 So, we had a lot of positive feedback, particularly
10 regarding the fact that the brochure did provide
11 them with potential risks and complications, the
12 surgical procedures. It proposed questions they
13 could ask their surgeon about their surgery. The
14 impact the implants might have on mammography, and
15 their other interest was knowing about the style
16 and size options available.

17 An additional finding of the assessment
18 from all these women was that the brochure was so
19 comprehensive and extensive that it created some
20 confusion. There was a lot of information for them
21 to have to, you know, review and assess. Their key
22 comments were difficulty in understanding and
23 interpreting the clinical tables. Most of the
24 women found it kind of daunting to understand the
25 tables. Finding, within the brochure, relevant

1 sections was important to them. Also, difficulty
2 in understanding how the brochure was actually
3 organized, where they would find the information
4 they needed and the graphic presentation.

5 As a result of their comments and
6 feedback, we have incorporated changes to the
7 patient labeling and provided that to FDA. Part of
8 the changes that we have implemented are revisions
9 to the clinical tables to make them easier to
10 understand and clearer. We have created separate
11 sections for augmentation and reconstruction
12 because the women who provided feedback on this
13 point wanted to find the surgery that pertained to
14 them, whether it be augmentation or reconstruction.
15 We also added a table of contents and a glossary of
16 terms, and we modified the graphic presentation for
17 ease of use. This condition of approval the FDA
18 has determined we have completed.

19 Now I will pass the microphone to Tom
20 Powell.

21 MR. POWELL: Good afternoon. The third
22 condition of approval involved an effort to
23 determine mode of failure of saline implants. The
24 objective of this retrieval study was to use
25 reported and observed information to understand and

1 identify possible mode of implant failure.

2 In the eight months from July of 2000 to
3 March of 2001, over 2000 saline devices were
4 returned as deflated and were evaluated. This
5 quantity represents in the neighborhood of a half
6 percent of the devices that were sold.

7 Evaluations included detailed visual
8 examinations, the interpreting physicians' reports
9 and performing appropriate testing, such as shell,
10 material, mechanical tests.

11 From this effort, failure characteristics
12 were identified and grouped into the following
13 categories: smooth-edge opening, shell openings
14 associated with a crease or fold, which is
15 indicative of a true device failure as this
16 characteristic is nearly always associated with
17 deflation.

18 Sharp-edge opening, openings in the device
19 shells where there is no associated crease. The
20 reason for this characteristic is yet undetermined
21 and may be a true failure or an artifact from
22 handling, and are associated with both reported
23 deflated and non-deflated retrieved implants.

24 Valve delamination, a characteristic where
25 50 percent or more of the valve bond area is lost.

1 For devices where valve observations confirmed
2 physician reports, this may be representative of a
3 true device failure. However, based on lab
4 identification of valve delaminations on
5 non-deflated retrieved implants, this
6 characteristic may be the result of an artifact.

7 Leaky valve, this characteristic is
8 identified by a device demonstrating leakage upon
9 return evaluation. The reason for this
10 characteristic is unknown and may be most likely a
11 result of an artifact as it is frequently
12 associated with non-deflated retrieved implants
13 found in the lab to have a leaky valve.

14 Additionally, another group of devices was
15 identified as returned devices reported as deflated
16 where lab evaluation could not confirm the
17 deflation characteristic. These devices were
18 determined by lab evaluation to be functional and
19 the devices in this group made up approximately
20 10-15 percent of returned reported deflated
21 implants.

22 The next condition of approval was
23 continued activity on fatigue testing, responding
24 to past concerns. These were testing of minimum
25 thickness products; controlling the compression by

1 load values rather than the displacement technique
2 previously employed; and testing of the individual
3 units rather than simultaneously testing multiple
4 units.

5 Specific equipment was purchased to
6 address these concerns and a protocol was accepted.
7 The smallest size was selected as worst case where
8 the load is concentrated over the smallest area.
9 The test duration was accepted at either device
10 failure or at 6.5 million cycles. The acceptance
11 criteria was accepted to be all samples passing the
12 anticipated in vivo load of 5 lbs, all samples pass
13 ingredients twice the anticipated in vivo load, and
14 evidence that the anticipated in vivo load is past
15 the inflection point, or elbow point, defined as
16 the intersection of the best-fit log curve with the
17 linear best-fit curve from test values.

18 Results demonstrated that all criteria
19 were met. All samples passed at both 5 lbs and 10
20 lbs, and the endurance limit or the threshold force
21 below which an implant can undergo the run-out
22 number of cycles without failure was determined to
23 be 20 lbs. The ultimate static force value was
24 used in determining the inflection point and the in
25 vivo load anticipated at 5 lbs was clearly

1 underneath the inflection point of 44 lbs for
2 smooth products and 48.5 lbs for textured implants.

3 The last condition of approval was to
4 initiate a real-time study to support a five-year
5 shelf life. Currently, saline implants have
6 approval for a four-year shelf life at Inamed.

7 To support this five-year dating, all test
8 product was subjected to shipping simulation and
9 testing of both packaging and product is ongoing.
10 For packaging performance, four test criteria is
11 evaluated, and those are those up on the screen.
12 The results for the year zero are also up there.
13 For product performance seven categories are tested
14 and, again, the results for year zero have all
15 passed and testing is ongoing.

16 I will turn the microphone back to Ron.

17 MR. EHMTSEN: Thank you, Tom and Kim and
18 Audrey also. Just to quickly summarize, the
19 five-year follow-up, as part of the post-approval
20 study, has been completed and the years six through
21 ten are in process at this point.

22 The focus group study has been completed.
23 The final report for the retrieval study is being
24 prepared and will be submitted to FDA very shortly.

25 The fatigue testing has been completed,

1 and the baseline or year zero values for shelf life
2 testing have also been completed, and this will
3 continue on for a period of five years.

4 I would like to open the floor to
5 questions at this time. We are joined to today by
6 Dr. Scott Spear, who is professor and chief of the
7 Division of Plastic Surgery at Georgetown
8 University, who may be able to address clinical
9 questions if you have any; also, Joanne Kune, our
10 director of regulatory affairs at Inamed. We also
11 have several key members of our technical staff,
12 Meggy Backstrand who is our senior biostatistician
13 and contributed greatly to the preparation and
14 organization of this data, Farhan Jahab, who is our
15 group leader for device analysis, and Mike Taylor,
16 our process validation group leader. So, if you
17 have any questions, we would be happy to try to
18 answer them.

19 DR. WHALEN: Thank you. If I could begin,
20 perhaps Dr. Weiss, you described in one of your
21 slides that was labeled implant-specific
22 complications"and I have a couple of questions.
23 One was labeled implant malposition and just
24 looking at those two words, I would have thought
25 that would have been on the next slide in terms of

1 a surgeon complication rather than the device.
2 Could you elaborate on what implant malposition is?
3 In other words, if somebody comes out with breast
4 augmentation at their right knee, that seems to me
5 to be the surgeon and not your device. How do you
6 explain that?

7 DR. WEISS: I am actually going to defer
8 this to Dr. Spear to answer.

9 DR. SPEAR: My recollection is that we
10 wanted to be as encompassing as we could in terms
11 of things that could be related to the implant so,
12 for example, an implant could be put in the right
13 position but, because of its properties or
14 characteristics, it might displace itself. So,
15 although it could be surgeon related in terms of
16 making a space where it shouldn't be made, it could
17 also be device related. So, I think it is just
18 meant to be as generous as possible.

19 DR. WHALEN: So, if it was in the right
20 place when I finished is sort of like it was dry
21 when I closed?

22 DR. SPEAR: It could be.

23 DR. WHALEN: The same sort of thing?

24 Thanks. On that same slide, Dr. Weiss, what is
25 implant palpability?

1 DR. WEISS: Implant palpability would be
2 that you could actually feel the device through the
3 skin.

4 DR. WHALEN: So, the ones that you have on
5 your slide are ones where you can--

6 DR. WEISS: The surgeon noted it as a
7 complication, that they could actually feel the
8 device through the skin.

9 DR. WHALEN: So, it is moderately
10 subjective.

11 DR. WEISS: It would be based on physician
12 assessment.

13 DR. WHALEN: Correct. Finally, Dr. Weiss,
14 my last question for you, in the patient
15 satisfaction data that you reported, those are
16 percentages of patients with implants remaining in
17 place?

18 DR. WEISS: Correct.

19 DR. WHALEN: Other questions? Dr. DeMets?

20 DR. DEMETS: As a follow-up of some of the
21 follow-up studies, do I understand that no patients
22 were excluded from your analysis? I didn't hear
23 you comment on that. The patients that you started
24 out with, they are all in the Kaplan-Meier curves
25 for example? There were no patients excluded?

1 DR. WEISS: That is correct, no patients
2 were excluded.

3 DR. DEMETS: And how did you handle the
4 situation for the issue of censoring that we
5 discussed earlier today for patients who had the
6 implant removed?

7 DR. WEISS: There was no specific
8 correction that was taken into account in the
9 Kaplan-Meier analysis. The follow-up compliance
10 rate was at 80 percent or above. So, we did not do
11 any type of bias analysis at this point.

12 DR. DEMETS: So, any complication that
13 took place in a patient in whom the implant was
14 removed, at least it counts up until that point in
15 time in all the graphs? For some outcomes it is
16 not relevant; for some it might be.

17 DR. WEISS: Correct, if the patient was
18 lost to follow-up or was explanted of all study
19 devices at a particular point, her data up to the
20 time that she either dropped out of the study or
21 had all of her devices explanted was included. If
22 she was replaced with another study device, the
23 outcomes associated with the replacement continued
24 to be followed and those were reported here.

25 DR. DEMETS: While I think that your

1 response rate is certainly pretty good, 80 percent,
2 for reasons I said earlier it may not be good
3 enough because of the kind of attention that this
4 device is drawing. But do you have any sense of
5 the potential bias that might be in the
6 non-responders? You can't do a very thorough job
7 of this, but have you looked at this at all?

8 DR. WEISS: I don't have anything
9 specifically for this study. I know that in some
10 of our other studies we have found that some of the
11 reasons why patients have not returned for
12 follow-up visits have included being unable to
13 because they are out of the country, for example,
14 or have been in an accident. So, we have had some
15 information to suggest some reasons why patients
16 don't return.

17 DR. DEMETS: If I understood you
18 correctly, the information up to the five years was
19 obtained through patient visits to their surgeon
20 and/or the clinical site?

21 DR. WEISS: That is correct. It was a
22 visit to their same physician with whom they had
23 enrolled in the A95 or R95 studies. Or,
24 potentially a follow-up physician if the patient
25 moved to another area, for example, she could see

1 another physician in her area.

2 DR. DEMETS: And, do I understand that you
3 are proposing for the five- to ten-year to do more
4 of a questionnaire?

5 DR. WEISS: Correct. The six- to ten-year
6 follow-up is being obtained via a mail survey to
7 those patients.

8 DR. DEMETS: Thank you.

9 DR. WHALEN: Questions for Ms. Croyle, you
10 reported your focus groups were confused about the
11 clinical tables. Have you taken some actions to
12 redesign that data presentation? Confusion is sort
13 of a non-descript word. Can you elaborate a little
14 further on that?

15 MS. CROYLE: Confusion may not be the most
16 accurate term. A lot of women are not familiar
17 with looking at that type of information. It is
18 just something they typically won't look at unless
19 they are in academia or they have a job where they
20 are utilizing tables. I think it was more just an
21 understanding, comprehension issue.

22 DR. WHALEN: In that regard, I know each
23 PMA stands on its own and, therefore, every update
24 stands on its own so I don't want to be comparing
25 one to the other, but there was the opinion voiced

1 earlier that when people looked at some of the data
2 for the other sponsor, they just couldn't believe
3 it was that high and they just thought they were
4 covering their own derrieres in that regard.

5 MS. CROYLE: We did not have any of that
6 kind of feedback. That was information we did not
7 receive.

8 DR. WHALEN: So, phrased another way, was
9 it the perception of your independent contractor
10 doing your focus groups that women looking at your
11 complication rates grasped what that meant?

12 MS. CROYLE: They grasped what we were
13 trying to do; it was just daunting. Based on the
14 review, they were allowed to read the brochure
15 prior to the interviews, and most of the feedback
16 from many women, not all--I actually sat in and
17 viewed most of these focus groups in the two-way
18 mirror, and most of them just said I don't really
19 need this. It is not very helpful to me. It is
20 not the sort of thing I would utilize. Other women
21 would say I would need to study it further; I am
22 not sure what these tables are telling me.

23 DR. WHALEN: Dr. Choti?

24 DR. CHOTI: Ms. Croyle, regarding the
25 focus group, you had some comparison groups. You

1 had some augmentation focus groups prior to and
2 then a group of women after, as well as the
3 reconstruction. I am curious whether you saw any
4 differences between the different focus groups.

5 MS. CROYLE: I would say the main
6 observation of those who had reconstruction or
7 augmentation was that they very much appreciated
8 that this information was available. Many of them
9 had had surgery quite a few years previously and
10 they felt that if they had all this additional
11 information at that time it would have been
12 helpful. So, it was mostly positive feedback from
13 those who had had the experience. There were a few
14 who said, you know, if I had had this knowledge I
15 might have made a different decision, but it was
16 primarily that it was more informative and helpful.

17 DR. CHOTI: Another question to Dr. Weiss,
18 it is interesting that when looking at the local
19 complications I would have expected, if anything,
20 the number to go up, that is, the shape of the
21 curve to be different than an asymptotic curve. At
22 least the reoperation curve was kind of asymptotic,
23 higher number in the first year than the second and
24 so forth, which perhaps may be related to exchange
25 of implants, and so forth. But even with deflation

1 one might expect that to go up over time, greater
2 in the fourth year, the third, the fourth and the
3 fifth year than in the first year. If I recall,
4 your curve was quite linear. Any speculation as to
5 why we are seeing that?

6 DR. WEISS: Not really. I don't have any
7 suggestions as to why that may be occurring. I
8 will defer to Dr. Spear again.

9 DR. SPEAR: I don't claim to be a
10 biomaterials expert, but I think we heard about
11 this issue of the inflection point with these
12 devices, and I think the expectation is that they
13 will wear at a fairly linear rate up to some point,
14 at which point the failure rate we expect will
15 accelerate. It is just that at five years it
16 doesn't accelerate. It might be at ten years or 15
17 years, or 25 or 30 years. I don't know if Tom has
18 any comment about that.

19 MR. POWELL: I think it would be hard to
20 assess a time expectancy of this implant because of
21 the flexibility and the forces of the body
22 counteract that to some extent and fix it in place.
23 So, it is a very challenging area for
24 investigation, but I would not really have a good
25 response to that question at this time.

1 DR. CHOTI: I do want to compliment you on
2 what I thought was very clearly presented.

3 DR. WHALEN: Dr. Dubler?

4 DR. DUBLER: I have two questions. First
5 on the focus groups, when you went back to them,
6 you had your focus groups redesign your brochure
7 and then brought it back. Is that correct?

8 MS. CROYLE: No, the focus group studies
9 were conducted to revise the approved labeling for
10 the PMA.

11 DR. DUBLER: All right. And, you said
12 that people found the tables confusing, or whatever
13 word we are now using.

14 MS. CROYLE: Right. Difficult.

15 DR. DUBLER: Difficult, fine. Have you
16 removed the tables and substituted--

17 MS. CROYLE: No, the tables are still
18 there because they certainly contain key
19 information, but the language, the explanatories
20 introducing the tables have been expanded and we
21 have worked with the FDA quite some time on trying
22 to make that much more comprehensive for the
23 patients.

24 DR. DUBLER: So, even if you don't read
25 the table, you will get the information?

1 MS. CROYLE: You will certainly get a
2 brief gist of the contents of the table, yes.

3 DR. DUBLER: My second question, and I am
4 not sure to whom to address it, is that the data
5 for your R95 have substantially greater
6 complication rates than for your A95. Speculation
7 why? Is the reconstruction happening too soon? It
8 is so startling in all of the data that I wonder if
9 you have begun to think that perhaps ways of
10 changing surgeon practice might reduce those high
11 rates. I am a little puzzled about why they are so
12 high.

13 DR. WEISS: I will ask Dr. Spear to
14 address this.

15 DR. WHALEN: If he can figure out how to
16 change surgeon practice, he will get the Nobel
17 Prize.

18 DR. SPEAR: I wish we could. Actually, it
19 is not surprising from the clinical point of view.
20 It is pretty much expected. In fact, if you want
21 to get technical, since these are per-patient
22 complications and many reconstructions are
23 unilateral, the data is probably even more
24 disparate because the per-device complication is
25 probably even higher in reconstruction than it is

1 in augmentation because there are two in
2 augmentation and in reconstruction there is only
3 one device.

4 But, you know, they are two operations.
5 There is underlying scar tissue. There is often
6 radiation involved. It is a much more technically
7 challenging situation, and it is a fluid situation.
8 Frankly, the standards of practice in 2002 are
9 different than they were in 1999 or 2000 because of
10 changing patterns of treatment of breast cancer.
11 So, it is to be expected that the complication rate
12 would be higher.

13 What is very interesting from an academic
14 point view is that the one complication rate which
15 is the same is the failure rate, which is not
16 specific to the underlying environment that is
17 device specific. The failure rates are actually
18 identical.

19 DR. WHALEN: Dr. Newburger?

20 DR. NEWBURGER: Have you noticed any
21 difference in the failure rates of the implants
22 related to the positioning of the implants? In
23 other words, is there less of a leakage rate if it
24 is inframuscular as opposed to supramuscular? Is
25 there any complication rate that you can relate to

1 positioning? For example, the skin and nipple
2 complication rates are reasonable. Are these
3 related to periareolar positioning?

4 DR. WEISS: That was not a focus of the
5 study, to look at differences, although there was a
6 secondary analysis that had been conducted at the
7 time of the original PMA that looked at submuscular
8 versus subglandular placement on certain select
9 variables, including leakage/deflation and at the
10 time that data, I believe, three-year rates were
11 available and there was no difference observed at
12 that time.

13 DR. WHALEN: Ms. Brown?

14 MS. BROWN: First I would like to
15 compliment the company on getting 80 percent
16 follow-up out to five years. Getting patients back
17 to the doctor's office I think is probably a pretty
18 big challenge so I compliment you on that.

19 I was intrigued by the satisfaction rate
20 of 90-95 percent in the context of reconstructive
21 contracture rates of 35 percent, if I understood
22 that correctly, and augmentation contracture rates
23 of 10 percent, and leakage/deflation rates a little
24 less than 10 percent in both those populations. I
25 just find that really interesting, that patients

1 were that satisfied when they are having those
2 kinds of rates of contracture and leakage. I was
3 curious as to the 5-10 percent who weren't
4 satisfied, if you have some thoughts on why they
5 weren't satisfied, either the contracture patients,
6 the leakage patients.

7 DR. WEISS: I don't specifically have that
8 information with me. We did have the physician ask
9 if the patient was not satisfied, why she wasn't
10 and she would provide a reason, and I don't have a
11 synopsis of that information, but they could list a
12 complication, for example, as a reason.

13 MS. BROWN: I also thought it was a good
14 indication that perhaps the informed consent
15 process is working if 90-95 percent of the time
16 patients are saying they are satisfied after five
17 years.

18 DR. WHALEN: I would like to thank the
19 sponsor then and ask that Ms. Allen and Dr. Dawisha
20 again come forward for the FDA presentation.

21 **FDA Presentation**

22 MS. ALLEN: Good afternoon. FDA will now
23 summarize the status of the conditions of approval
24 for Inamed saline-filled breast implant PMA. For
25 your convenience, we have provided you with a hard

1 copy of FDA slides.

2 There are five conditions of approval, a
3 post-approval study, a focus group study, a
4 retrieval study, fatigue testing and shelf-life
5 testing.

6 Dr. Sahar Dawisha will present the status
7 of the post-approval study and I will present the
8 status of the remaining four conditions of
9 approval. I will now hand it over to Dr. Dawisha.

10 DR. DAWISHA: Good afternoon. Recall that
11 the A95 and R95 studies, which the PMA was based
12 on, were five-year studies with three-year data
13 presented to the panel back in March of 2000.

14 The sponsor has now followed this patient
15 cohort for the total of the five years of the
16 study, and they are going to be following the
17 patients in an abbreviated protocol for the
18 remainder of the five years, for ten years. The
19 database was closed for this update in August of
20 2001, and I am going to be discussing augmentation,
21 followed by reconstruction.

22 Table 1 shows the patient follow-up at
23 five years for augmentation on an by-patient basis.
24 The percent follow-up of 81.1 percent, which is
25 defined as the actual follow-up of 686 patients

1 divided by the expected follow-up of 846 patients,
2 is shown here, as well as the reasons for
3 withdrawals.

4 This slide summarizes the by-patient
5 cumulative Kaplan-Meier risk rates for selected
6 complications with corresponding 95 confidence
7 intervals. The three-year data in this table is
8 what is currently reported in the approved
9 labeling, and the five-year data is the updated
10 information which is going to be included in the
11 updated labeling.

12 Compared to three years, the rates at five
13 years are slightly higher, however, the confidence
14 intervals are overlapping. The exception to this
15 is for the complication of implant removal where
16 the confidence intervals are not overlapping,
17 suggesting a significantly increased cumulative
18 rate at five years compared to three. I will be
19 discussing implant removal in more detail later in
20 the presentation. Just to note that infection is
21 not included here. The five-year Kaplan-Meier rate
22 for infection was one percent.

23 The number and types of additional
24 surgical procedures performed in the augmentation
25 patients is shown through four years, which is what

1 is currently reported in the labeling, and through
2 five years as an update.

3 Through five years, there were a total of
4 463 additional surgical procedures performed at 293
5 reoperations in 224 of the 901 augmentation
6 patients enrolled in the study. Of the 224
7 patients undergoing reoperation, the majority, 82
8 percent, underwent one reoperation. Through both
9 four and five years, implant removal for any reason
10 with replacement was the most commonly performed
11 additional surgical procedure, constituting
12 approximately one-third of the procedures. It was
13 30.3 percent through four years and 33.7 percent at
14 five years.

15 This is followed by capsule procedures,
16 specifically capsulotomy, which constituted the
17 majority of the capsule procedures. There was
18 about three-quarters of the capsule procedures at
19 both four and five years.

20 Of the 1800 augmentation implants that
21 were enrolled in the A95 study, there were 166
22 implant removals, or 9.2 percent, through five
23 years for any reason. On a by-patient basis, there
24 were 10.9 percent of patients who had an implant
25 removed through five years for any reason.

1 The primary reason for implant removal,
2 using the same hierarchy as in the currently
3 approved labeling, is shown on this slide. I have
4 combined categories for the purpose of projecting
5 the slide, as noted in the footnotes below the
6 table. Patient request constitutes approximately
7 less than half of the primary reasons for implant
8 removal through both four and five years. It is
9 43.2 percent at four years and 42.2 percent at five
10 years. The majority of these patient requests for
11 an implant size or shape change.

12 Of the complications, leakage or deflation
13 constitutes the most frequent primary reason,
14 approximately 33 percent at both four and five
15 years.

16 For those patients who underwent implant
17 removal with replacement, i.e., who had a revision
18 and had follow-up, selected complications follow-up
19 implant replacement are shown on this table at two
20 years, which is what is currently reported in the
21 labeling and at three years which is the updated
22 information. Although the Kaplan-Meier rates are
23 higher at three years than at two years, the
24 confidence intervals are overlapping, suggesting
25 that the rates are not significantly different.

1 I would like to point out that for implant
2 removal and/or replacement the overlap is minimal,
3 suggesting that the rate at three years is
4 approaching the limit of being significantly higher
5 than at two years.

6 The sponsor provided updated information
7 pertaining to breast disease and connective tissue
8 disease, however, I am not going to be discussing
9 these results.

10 We now move on to the reconstruction data.
11 The patient follow-up for the reconstruction
12 patients is shown on this table through five years.
13 Again, the percent follow-up, which is the actual
14 follow-up divided by the expected is 80 percent.

15 The next table shows the by-patient
16 cumulative Kaplan-Meier rates of first occurrence
17 through three years, which is what is currently
18 reported in the labeling, and through five years,
19 which is the updated information for selected
20 complications. Although the rates at five years
21 are slightly higher than at three years, the
22 confidence intervals for all these complications
23 are overlapping, suggesting no significant
24 differences. Note that the reoperation rate here
25 excludes planned procedures as part of stage

1 reconstruction.

2 Table 8 summarizes the number and types of
3 additional surgical procedures excluding planned
4 procedures through four years, which is what is
5 reported in the current labeling, and through five
6 years, which is the updated information. There
7 were a total of 159 additional surgical procedures
8 performed and 126 reoperations in 100 of the 237
9 percents enrolled in the R95 study. Of the 100
10 patients undergoing reoperation, the majority, 81
11 percent, underwent one reoperation. Through both
12 four and five years, implant removal for any
13 reason, with replacement, was the most commonly
14 performed additional surgical procedure,
15 constituting approximately 30 percent of the
16 procedures through five years. This is followed by
17 skin or scar revision or removal, 27.7 percent, and
18 followed by implant removal without replacement,
19 13.2 percent.

20 Of the 316 implants in the R95 study,
21 there were 70 implants which were removed, which is
22 22.2 percent, through five years for any reason.
23 On a by-patient basis, there were 26 percent of
24 patients who underwent implant removal through five
25 years for any reason. The primary reason for

1 implant removal in this group, using the same
2 hierarchy as in the currently approved labeling, is
3 shown here, and through both four and five years
4 capsular contracture constitutes the largest
5 primary reason for implant removal, approximately
6 26 percent at four years and 31 percent at five
7 years. This is followed by patient request for a
8 size or shape change, approximately 23 percent at
9 four years and 21 percent at five years. Then,
10 followed by leakage/deflation, 16 percent through
11 four years and 17 percent through five years.

12 For those patients who underwent implant
13 removal with replacement, i.e., who had a revision
14 and then had follow-up, selected complications are
15 shown here. Although the Kaplan-Meier rates at
16 three years are higher than at two years, the
17 confidence intervals are again overlapping,
18 suggesting that the rates are not significantly
19 different.

20 This concludes my presentation and now Ms.
21 Allen will continue with the focus group study
22 results.

23 MS. ALLEN: The ultimate goal of the focus
24 group study was to improve their existing patient
25 brochure. Inamed already described how an

1 independent study was conducted to obtain feedback
2 regarding their patient brochure. They also
3 described some of the key findings from that
4 independent study.

5 FDA considered the independent study
6 reports submitted by both Mentor and Inamed and
7 required the same types of changes for both
8 companies, if applicable. The primary changes to
9 Inamed's patient brochure were as follows: They
10 made significant modifications to the lead-ins, as
11 well as to the content of the safety tables because
12 the majority of the women found the information
13 confusing. They stratified the augmentation and
14 reconstruction information. They added a table of
15 contents and a glossary, and they modified the
16 graphics to read easier.

17 Inamed incorporated all requested changes
18 into the patient brochure and received FDA
19 approval. Therefore, we consider this condition of
20 approval fulfilled. Inamed has just submitted a
21 revised patient brochure and package insert that
22 reflect the five-year post-approval data. After
23 FDA review and approval, Inamed will finalize them
24 for patient and product use.

25 The purpose of the retrieval study is to

1 determine modes of failure. This information may
2 lead to changes in manufacturing design
3 specifications, mechanical testing requirements,
4 and/or labeling.

5 In their 2001 report, Inamed submitted
6 data on over 2400 explants collected over an
7 eight-month period. They provided clinical or
8 physician observations collected at the time of
9 explantation. They provided laboratory
10 observations or device failure characteristics,
11 such as smooth and sharp crease-edge openings.
12 These were noted with respect to whether the device
13 was deflated or non-deflated. They also provided
14 material property test data.

15 Inamed made numerous conclusions regarding
16 whether the device failure characteristics were
17 representative of a true failure or the result of
18 an artifact. These were summarized by Inamed
19 earlier and provided in your panel memo.

20 Inamed made on hypothesis regarding a mode
21 of failure. That is, based on smooth-edge openings
22 being a characteristic found more in smooth shells,
23 failure may be caused by fold flaw and repetitive
24 abrasion of both sides of the shell.

25 Inamed will submit a final report of the

1 retrieval study in their 2002 annual report.

2 Therefore, FDA considers this condition of approval
3 still open.

4 The purpose of the fatigue testing was to
5 determine the fatigue strength of Inamed's product
6 line. These data provide additional information on
7 the expected long-term performance of the device.

8 Of the five styles in their product line,
9 Inamed performed fatigue testing on styles 68 and
10 168 as representative of their entire product line.
11 The resulting endurance load limit was 20 lbs at
12 6.5 million cycles run-out for both styles, which
13 met the acceptance criteria.

14 As part of the test report, Inamed also
15 supplied the ultimate static rupture results for
16 those two styles. The results were over 1600 lbs
17 for both styles, which shows that the implants
18 failed at static loads much greater than that
19 expected during mammography, which is 55 lbs. FDA
20 considers this condition of approval fulfilled.

21 The purpose of the shelf-life testing is
22 to support a five-year expiration date on the
23 package label. Inamed's shelf-life protocol
24 involves real-time package integrity and mechanical
25 testing performed at year zero, or baseline, and

1 annually through five years.

2 In their 2001 annual report, Inamed
3 provided an interim report with year zero data.
4 The results were adequate. FDA expects Inamed to
5 submit an updated report of shelf-life testing
6 annually until the desired five-year expiration
7 date is supported. Therefore, FDA considers this
8 condition of approval still open.

9 This is an overall summary of Inamed's
10 five conditions of approval. The post-approval
11 study will remain open until five-year data are
12 submitted. The focus group study is complete.
13 Inamed has already revised their patient labeling
14 to reflect the focus group study findings. The
15 retrieval study is currently open, however, Inamed
16 will submit the final report in July, 2002. The
17 fatigue testing is complete. The shelf-life
18 testing will remain open until five-year data are
19 submitted.

20 I will now turn it over to the panel for
21 discussion.

22 DR. WHALEN: Thank you both Ms. Allen and
23 Dr. Dawisha. Let me add, Dr. Dawisha, if I had had
24 someone with your gift of lucidly turning numbers
25 into knowledge in med school, I might not have

1 developed a life-long passionate hatred of
2 biostatistics. So, thank you very much.

3 [Laughter]

4 Are there any questions of the FDA
5 members? Yes, Dr. DeMets?

6 DR. DEMETS: Although the sponsor didn't
7 say this directly, you certainly allude to the fact
8 that because the confidence intervals overlap there
9 was no significant difference, which is technically
10 true but the other side of the story is was the
11 study big enough to have sensitivity to find
12 differences of that size? So, I am not quarreling
13 with the general gist or your comment, but I think
14 the only caution in pushing that statement too far
15 is, yes, they may not be statistically different
16 but it could be that the difference is there and
17 you just can't see it with the size of the study,
18 or maybe there isn't a difference. That is just a
19 caution, and I think somewhere in all the
20 discussion we need to have some discussion or
21 comment on the size of the study, the precision
22 that they are able to find for the different
23 outcomes, whether it is failure rate or other kinds
24 of complications.

25 DR. DEMETS: Yes, I would agree. We

1 actually did not ask the sponsor to do statistics
2 for that reason. That is why I didn't present
3 statistics but we were just sort of trying to make
4 some sort of comparison of time trend analysis.

5 **Panel Discussion**

6 DR. WHALEN: Other questions?

7 [No response]

8 Thank you very much. We would like now to
9 have discussion by each of the panel members, the
10 last go around the table for this particular
11 presentation. I think it is only fitting that at
12 our last meeting Dr. Chang has the last words so we
13 will start with Dr. Miller and then work our way
14 around the table. Dr. Miller?

15 DR. MILLER: I guess I would like, first
16 of all, to compliment this afternoon's
17 presentations. I certainly feel much more
18 satisfied with the data presented this afternoon,
19 and reassured by it.

20 I think I would like to emphasize as we
21 consider these things that this is a unique set of
22 patients and unique problem, and looking at single
23 things like reoperation, which ordinarily we would
24 consider something undesirable for most surgical
25 procedures, for most procedures like this,

1 reconstruction procedures or esthetic procedures,
2 it is almost expected that there will be other
3 procedures performed to achieve the desired result.
4 So, looking at that as an isolated category and
5 considering it a complication per se is not really
6 interpreting it properly. So, I just would like to
7 be cautious about that.

8 The other thing I would like to point out
9 is that the satisfaction levels being high, despite
10 a 40 percent incidence of reoperations, just points
11 out this sort of elusive side of this problem, the
12 benefit perceived by the patient. Ordinarily, a
13 reoperation would lower a person's satisfaction
14 with what they are going through perhaps, and it
15 does at the time, but patients perceive a
16 tremendous benefit from having these procedures,
17 even with multiple procedures. So, we have to
18 remember that as we consider the risk/benefit ratio
19 on the use of the implants. But this kind of data
20 is very helpful to get an idea about what the risks
21 side of the equation is.

22 DR. WHALEN: I should just state if you
23 two are more comfortable not being in the center,
24 since you have already completed, feel free to
25 adjourn, but we are delighted to have you where you

1 are as well. Ms. Brown?

2 MS. BROWN: This is my first panel meeting
3 at which the breast implants have been discussed,
4 so I don't have the benefit of the history of being
5 at the last meetings. One of the things I am very
6 pleased to see was a requirement and was actually
7 fulfilled is the evaluation of the patient
8 brochures, the focus groups, because adequately
9 informing the patients of the risks as well as the
10 benefits of the procedure seems to be a key to
11 ensuring future satisfaction of patients. I guess
12 I would take that as an indication that that is
13 probably a reasonably successful process of the
14 patient brochure informing the patients because the
15 satisfaction rates have been pretty high in spite
16 of the complication rate.

17 So, I would just exhort the companies to
18 continue to keep an eye on that patient brochure
19 process, keeping that information up to date.

20 DR. WHALEN: Dr. Doyle?

21 DR. DOYLE: I would like to thank the
22 presenters this afternoon for a very clear
23 presentation. My only concern is that they have
24 gotten such an excellent follow-up rate with the
25 procedure they have been using to date, which is

1 the physician visit, and they are now going to
2 switch to another procedure. I would wish, if it
3 were at all possible, that they try to continue to
4 go through the physician because the follow-up
5 rate, I fear from other studies, will fall off
6 drastically for the next five years, and it is so
7 important to have those data in the longer-term
8 follow-up. If it were at all possible, I would
9 hope that they would be able to continue to go
10 through the physician because I think that this
11 kind of data set--this is an amazingly good
12 follow-up for this particular type of group of
13 women.

14 I think it is interesting, as Dr. Miller
15 noted, that the patients are satisfied even though
16 there is a high complication rate, I think similar
17 to some of the injectable contraceptives where
18 there was 80-90 percent breakthrough bleeding and,
19 yet, the satisfaction was very high. So, it speaks
20 again to the fact that is an individual's decision
21 and, as long as they have the right information on
22 which to make that decision, I feel that they have
23 the right to make it and I would continue to urge
24 that we give them the correct data.

25 DR. WHALEN: Dr. McCauley?

1 DR. MCCAULEY: I would like to basically
2 echo some of the comments that have already been
3 made. I think Inamed is to be congratulated on
4 their presentations and their clarity, and also the
5 follow-up that they have been able to sustain at
6 five years on their patients.

7 I would only suggest that at least with
8 the focus group study, after revisions are made in
9 those brochures, to actually take those back to
10 those patients for follow-up just to make sure that
11 the changes that they perceived to be resolved or
12 clarified the brochure a little bit better are
13 actually the same as what the patients actually
14 think. I think that is an important but I think
15 overall it was an excellent presentation. I think
16 their data actually resolve some of the issues that
17 were of tremendous concern prior to their
18 presentation.

19 DR. WHALEN: Dr. Dubler? I am the only
20 survivor of the '92 hearings and the hearings two
21 years ago and today, and it is heartening. I
22 thought the PMA data that were presented two years
23 ago were excellent and today's follow-up has been
24 equally excellent, and I thank you for that.

25 For the FDA, I would suggest, and I don't

1 know how we would do this, but these data and the
2 patient brochure are the basis for an informed
3 consent process but they are not the informed
4 consent process. That has to go on with the
5 physicians, and I don't know if there is any way of
6 trying to affect, change or help that process to
7 evolve into one that uses these data and truly
8 empowers patients. Maybe that is beyond what the
9 FDA can consider, but there is such a nice platform
10 now to help women think about this decision that it
11 would be excellent if we could take that to the
12 next step, if the FDA could encourage that process
13 of informed consent to go forward. So, I thank you
14 for the data. They are very helpful, and for a
15 clear presentation.

16 DR. WHALEN: Dr. Choti?

17 DR. CHOTI: Although many of the points
18 have been clarified this afternoon, I still think
19 it is important to emphasize what we have been
20 talking about all day, and that is, this is a
21 common operation being performed with placement of
22 this device with increased frequency, often in
23 healthy women, and there is still a significant
24 paucity in data to help both the physician and the
25 patient make informed decisions.

1 Although this data certainly was presented
2 quite clearly, I think I would still encourage the
3 increase in quality, follow-up data, preferably
4 independently collected, longer-term follow-up.
5 Also, I agree with using that information as well
6 as continued focus groups to continue to improve
7 informed consent because it is still not clear
8 whether this information is really being understood
9 by the woman who is getting these implants put in.

10 DR. WHALEN: Dr. Newburger?

11 DR. NEWBURGER: I appreciate the
12 seriousness with which Inamed has taken the FDA's
13 directives, and the thoroughness with which the
14 follow-up studies have been applied. I hope that
15 Inamed will apply the same thoroughness to
16 improving product performance to have less leakage
17 developing, less reactivity of the implants because
18 still, when you look at the rate of leakage of 10,
19 11 percent over five years, this still translates,
20 at the current rate of implantation, into between
21 20,000 and 30,000 women having this complication
22 and them having to have a reoperation. So, I hope
23 you will apply the same thoroughness and diligence
24 in further perfecting the product. But thank you
25 very much.

1 DR. WHALEN: Dr. DeMets?

2 DR. DEMETS: Well, I would like to echo
3 the sentiments of my previous colleagues speaking.
4 I was very pleased, for example, that the follow-up
5 was based on clinic evaluations. I share Dr.
6 Doyle's concern that if you switch procedures it
7 may drop. Obviously, there are some practical
8 matters that have to be taken into consideration.

9 I have already said my comment about
10 response rates. I think this is a substantial
11 improvement in the right direction. I think
12 because of the sensitivity and the interest of this
13 particular study and this device, my own personal
14 view is that an 80 percent response rate is
15 probably not good enough to get rid of some of the
16 concerns because with 20 percent non-response there
17 is plenty of room for bias, and I can't predict
18 which way the bias will go. It could go in favor
19 of or against the device because it is very hard to
20 predict those kind of things. But 20 percent is a
21 lot of room. If you have 80 percent now at five
22 years, I worry about what it will be at ten years
23 even if you didn't change procedures, and I worry
24 even more if you do.

25 So, I guess my recommendation or at least

1 suggestion to the sponsor is to work even harder to
2 get those rates up. I think it will serve you well
3 in the long-run to address controversies and
4 questions that are bound to come.

5 I guess this is my last meeting so I am
6 allowed to not follow the rules totally, but if I
7 were in the business of breast implants in any way,
8 I think I would demand that some kind of
9 registry--if there are 300,000 of these per year,
10 it would be of benefit of the investigators,
11 patients, sponsors and even the FDA to have some
12 national registry of these kind of patients so we
13 really get the kind of numbers and the kind of
14 follow-up and the conditions that if you get into
15 the registry you have to stay in the registry so we
16 good, complete--otherwise, this controversy will be
17 here five years from now just as sure as it is
18 right now.

19 That would be a general plea to everybody.
20 It is an important area, obviously, and everybody
21 cares about this, so that would be my general plea.

22 Finally, and a personal comment, I just
23 want to thank the panel for allowing a
24 biostatistician to survive four years amongst a
25 group of surgeons, and occasionally pay attention

1 to what I say or at least the points I am trying to
2 make. So, I thank the panel for tolerating me for
3 four years, and for the FDA allowing me to be a
4 member of this committee.

5 DR. WHALEN: Dr. Chang?

6 DR. CHANG: In March of 2000 I felt that
7 McGhan Medical Corp. had done its homework in
8 presenting data for its PMA evaluation. I believe
9 that Inamed has shown due diligence in the
10 follow-up and presenting the data as part of its
11 approval conditions. So, I want to commend the
12 sponsor for the data that they have presented
13 today.

14 A continued plea, and I would echo what
15 Dr. Newburger says, is let's not rest on our
16 laurels. I make an appeal to sponsor to continue
17 to use its energies and resources to improve on the
18 rate of leakage and deflation. And, whether this
19 includes physician education, a warning not to
20 under-inflate to try to prevent the folding that
21 can occur because of position usage, that may be an
22 important part of decreasing the rate. Regardless
23 of this, again, there is room for improvement but I
24 do want to congratulate the sponsor for doing an
25 excellent presentation today, and I would like to

1 thank FDA again for the opportunity to participate
2 these past few years on the panel.

3 DR. WHALEN: Thank you. Dr. Witten, is
4 the discussion satisfactory to FDA?

5 DR. WITTEN: Yes, it is.

6 DR. WHALEN: Thank you. Let me add a
7 thanks to all of those who testified, particularly
8 this morning during the public session. I realize
9 many of them took their own time and some of them
10 their own financial resources to bring a very
11 impassioned and heartfelt message to us, and I
12 assure you we did hear what you had to say to us
13 and have taken that into consideration.

14 I would like to thank all of my fellow
15 panel members, from very solid new additions to the
16 panel to always stalwart temporary panel members,
17 and give special thanks to Drs. Chang and DeMets
18 for their service elbow to elbow with me for the
19 past few years.

20 Finally, let me give my profound thanks to
21 the FDA. Between 12 years active and 16 years
22 reserve service in the United States Navy, I have
23 somehow developed a moderately cynical attitude
24 towards the government--hard to believe. Despite
25 that, the FDA has consistently, at every

1 level--scientific review, leadership, professional,
2 administrative and support--always done an
3 impeccable job, and they have done it in a
4 fishbowl. It has to be this way; it should be this
5 way, but every watchdog group and every
6 congressional member of the Hill is watching you
7 guys every time you use a pencil eraser. So, my
8 hat is off to you.

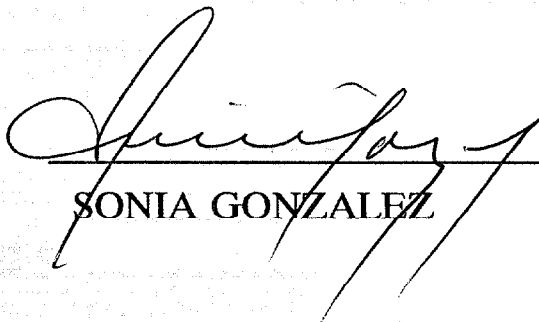
9 Having completed our business, this
10 meeting of the General and Plastic Surgery Devices
11 Panel is adjourned.

12 [Whereupon, at 2:55 p.m., the panel was
13 adjourned]

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CERTIFICATE

I, **SONIA GONZALEZ**, the Official Court Reporter for Miller Reporting Company, Inc., hereby certify that I recorded the foregoing proceedings; that the proceedings have been reduced to typewriting by me, or under my direction and that the foregoing transcript is a correct and accurate record of the proceedings to the best of my knowledge, ability and belief.



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